RAW SEQUENCE LISTING PATENT APPLICATION US/08/973,303

DATE: 05/15/98 TIME: 13:13:42

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This Raw Listing contains the General Information Section and up to the first 5 pages.

1	SEQUENCE LISTING ENTERE
2	SEQUENCE LISTING ENTERED
3	(1) General Information:
4 5	(i) APPLICANT: Peter DORMER
6	
7 8	(ii) TITLE OF INVENTION: PROTEIN WITH DIFFERENTIATION-INDUCING ACTIVITY FOR FRIEND'S ERYTHROLEUKEMIA CELL LINES
9	
10	(iii) NUMBER OF SEQUENCES: 10
11	
12	(iv) CORRESPONDENCE ADDRESS:
13	(A) ADDRESSEE: LOWE, PRICE, LEBLANC & BECKER
14	(B) STREET: 99 Canal Center Plaza, Suite 300
15	(C) CITY: Alexandria
16	(D) STATE: VA
17	(E) COUNTRY: USA
18 19	(F) ZIP: 22314
20	(V) COMPUTER READABLE FORM:
21	(A) MEDIUM TYPE: Floppy disk
22	(B) COMPUTER: IBM PC compatible
23	(C) OPERATING SYSTEM: PC-DOS/MS-DOS
24	(D) SOFTWARE: PatentIn Release #1.0, Version #1.30
25	
26	(vi) CURRENT APPLICATION DATA:
27	(A) APPLICATION NUMBER:
28	(B) FILING DATE:
29	(C) CLASSIFICATION:
30	/iii Ammonyey/Adeym Tyeodyamtoy.
31 32	(viii) ATTORNEY/AGENT INFORMATION: (A) NAME: Presta, Frank P.
33	(B) REGISTRATION NUMBER: 19,828
34	(C) REFERENCE/DOCKET NUMBER: 3428-005
35	(v)
36	(ix) TELECOMMUNICATION INFORMATION:
37	(A) TELEPHONE: (703) 684-1111
38	(B) TELEFAX: (703) 684-1124
39	
40	
41	
42	(2) INFORMATION FOR SEQ ID NO: 1:
43 44	(i) SEQUENCE CHARACTERISTICS:
44	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1495 base pairs
46	(B) TYPE: nucleic acid
40	(b) IIIb. Mactele dela

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(C) STRANDEDNESS: single (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA to mRNA

(iii) HYPOTHETICAL: YES

(iv) ANTI-SENSE: NO

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Mus musculus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

1	CCGACCGTGC	GGACTTAAGA	TGGAGGCACT	TCCTGTCTGC	GGCGGGAAGA	GAAGGCTCGG	60
: ;	TCGGAGCCGG	GAATGCTGGG	ACTTGTAGTG	CGTAGTCAAT	GGTTCTCTAT	GGGCTTTCAG	120
) }	AGTGAGTGGC	GGGAAGGCGG	CCCCGAGGCA	TGCTGGGAGT	TGTAGTCCTG	CCGTCGTCAA	180
)	TGGTTCTCTA	TGGGCTTTCA	GAGTGAGTGG	CGGGAAGGCG	GCCCCGAGGC	ATGCTGGGAG	240
	TTGTAGTCCT	GCCATAGTCA	ATGGTTCTCT	ATGGGCTTTC	AGACTGAGTG	GCGGGAAGGC	300
: }	GGCCCCGAGG	CATGCTGGGA	GTTGCAGCGC	CATGTTTTAA	AGCACGCGTT	TCTCTGTATA	360
: i	GACCTGGCTG	TGGATTTTTC	GCTAATTCTT	TTTTTTAGCT	TTATTTTTAA	TTTTTACTTT	420
) !	TTCACACAGG	ATTTCTCTTT	ATAGCCTTGG	CTACCGTTTT	TTCCCTAATT	ATTCTCCTTT	480
)	TCATTTTGGT	TTATTTTTTT	TTAATTTTGG	TTTTTTTAAG	ACAGGGTTTC	TCTGTATAGA	540
	CCTGGCTGTG	GATTTCTCAC	TAATTATTTT	TTTTAGCTTT	ATTTTTAATT	TTTACTTTTT	600
	CACACAGGAT	TTCTCTTTAT	AGCCTTGGCT	ACCGTTTTTT	CCGTAATTAT	TCTTATTTTC	660
; ;	ATTTTGGTTT	ATTTTTTAAT	TTTAATTTTT	GATTTTGGAG	ACAGGGTTTC	TCTTTTAGCC	720
,	GCAGCTATGG	TTTCTGCCCT	AATTATTCTT	GTCCTTATTT	GTAATTTAAT	TCTTAATTTA	780
)	ATTTAATTTA	TAATTTTGTT	GTAAGTTTTT	CTGTGGGCGT	GAATGGAAAG	TCTAACCCGT	840
	GTTTCTCTGT	TCAGCGTCCG	CCGGTCACGG	ccccccccc	CAGCGACGTC	ACCCACACGC	900
:	GCAGAAGCGG	ACGCCGCGGT	CAAGATGTCT	CTGCCATGCC	CACGGGACGC	ACGGACGCAC	960
	GGACGGACGG	ACGGACTCCA	CAAGGTAGGA	AGCCTGCGCC	GACCGCACCG	CCGCACCCAC	1020
	CACAGCACAC	AGGACACACG	cgggccccgc	GCCCGCCCAG	GCACACGCGG	CACACACGGC	1080
)	ACACACGGCA	GGCAGGCCAG	GCACACGCAT	CCGCAGGACC	CGCCGCACCC	GCCACGCAGA	1140

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	1141 U 1 3E1. 32304)	1.7UW													
100 101	CACGGACGAG CCGCCGCGGT CAAGATGTTC ACCCGCCGCG GTCAAGATGT ATGTGCCACC	1200													
102 103	GACCCTCGCC CCGCTGGACG GACGGACGGA CGCACGCACG CCGTCAGCGT CCACCGGTCA	1260													
104 105	CTGCCGCCGC CCACAGTGAT GTCACCCACG AAAGCACACA CGTAGAAGCG GACGCCGTGG	1320													
106 107	TCAAGATGTC TCTGCCATCC CCACAGGACG GACGGACGGA CTCCACAAGG TGCGCGTGTC	1380													
108 109	GCCGAGGCCG CCAGGACGGA GCGATTCTCA CGGAGGAAGG AGCACGCCAA CAGGGCCTGA	1440													
110 111	CTGCGTACAG ACATGTCCCC CTCAATAAAA TTGCAGTTGA AATGGAAAAA AAAAA	1495													
112 113	(2) INFORMATION FOR SEQ ID NO: 2:														
114															
115 116	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 715 base pairs														
117	(A) LENGTH: 715 base pairs (B) TYPE: nucleic acid														
118	(B) TYPE: NUCLEIC ACID (C) STRANDEDNESS: single														
119	(D) TOPOLOGY: linear														
120	(-)														
121	(ii) MOLECULE TYPE: cDNA to mRNA														
122 123	(iii) HYPOTHETICAL: YES														
123	(III) RIPOIREITCAL: IES														
125															
126	(ix) FEATURE:														
127	(A) NAME/KEY: CDS														
128	(B) LOCATION: 155688														
129															
130	A LA GEOLOGICA DEGENERAL GIOLES AND														
131	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:														
132 133	CGCGCCCGCC CGGGATCCCC AGCTGCCGCC GCGCCCGCCC GCCCGCCCGG GGCCCCCGCT	60													
134	COCOCCOCC COOMICCCC MOCIOCOCC OCCCCCCCC CCCCCCCC CCCCCCCCCC														
135	GCAGAACCGT GACCGTCCGC CGGTCACGGC CGCCGCCCCC AGCGACGTCA CCCACACGCG	120													
136															
137	CAGAAGCGGA CGCCGCGGTC AAGATGTCTC TGCC ATG CCC ACG GGA CGC ACG	172													
138	Met Pro Thr Gly Arg Thr														
139	1 5														
140	GAC GCA CGG ACG GAC GGA CTG ACT CCA CAA GGT AGG AAG CCT GCG CCG	220													
141 142	Asp Ala Arg Thr Asp Gly Leu Thr Pro Gln Gly Arg Lys Pro Ala Pro	220													
143	10 15 20														
144															
145	ACC GCA CCG CCG CAC CCA CAG CAC ACA GGA CAC ACG CGG GCC CCG	268													
146	Thr Ala Pro Pro His Pro Pro Gln His Thr Gly His Thr Arg Ala Pro														
147	25 30 35														
148	and and and had and had and and had and and had and and and	316													
149 150	CGC CCG CCC AGG CAC ACG CGG CAC ACA CGG CAC GCA GGC Arg Pro Pro Arg His Thr Arg His Thr Arg His Thr Arg Gln Ala Gly	210													
151	40 45 50														
152															

RAW SEQUENCE LISTING PATENT APPLICATION US/08/973,303

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153	CAG	GCA	CAC	GCA	TCC	GCA	GGA	ccc	GCC	GCA	ccc	GCC	ACG				36	
154				Ala														
155	55					60					65					70		
156			a aa	999	a a m	a	a a m	amm.	ava	000	a aa	aaa	ma s	202	mam	N TO CO	41	2
157 158				CGC Arg													41	. 2
159	1111	Ser	Arg	ALG	75	GIII	мар	Vai	III	80	110	nr 9	DCI	~- y	85	1100		
160					. •													
161				CCC													46	0
162	Cys	His	Arg	Pro	Ser	Pro	Arg	Trp		Asp	Gly	Arg	Thr		Ala	Arg		
163				90					95					100				
164 165	ССТ	CAG	COT	CCA	CCG	GTC	ልሮሞ	acc	GCC	GCC	CAC	ΔСТ	GAC	GTC	ACC	CAC	50	8
166				Pro														
167	9	U	105					110					115					
168																		
169				CAC													55	6
170	Glu		Thr	His	Val	Glu		Asp	Ala	Val	Val		Met	Ser	Leu	Pro		
171 172		120					125					130						
173	TCC	CCA	CAG	GAC	GGA	CGG	ACG	GAC	TCC	ACA	AGG	TGC	GCG	TGT	CGC	CGA	60	4
174				Asp														
175	135			_	_	140					145					150		
176																		
177				GAT													65	2
178 179	GLY	Arg	GIN	Asp	155	Ата	TTG	ьеи	1111	160	GIU	GIA	мта	Arg	165	GIII		
180					100													
181	GGC	CTG	ACT	GCG	TAC	AGA	AAT	GCC	CCC	CCT	CAA	TAA	AAT	rgca(TT		69	8
182	Gly	Leu	Thr	Ala	Tyr	Arg	Asn	Ala		Pro	Gln	*						
183				170					175									
184 185	CAAI	N TO CO		AAAA													71	5
186	GAA	11001	ann i	ınnnı	m													
187																		
188	(2)	INF	ORMA'	rion	FOR	SEQ	ID 1	10:	3:									
189																		
190		1	` '	SEQUE														
191 192			•	A) LE 3) TY				_	acid	15								
193			•) TO														
194			•	•														
195			,	LECUI			_											
196		(xi) SE(QUEN	CE DI	ESCR	[PTIC	on: s	SEQ :	D NO	D: 3:	:						
197 198	Mc+	Dra	Фhr	Gly	λr~	ሞኮኮ) en	λls	۸r~	Thr	Nen	را بر	T.eu	Thr	Pro	Gln		
198	меt 1	F10	1111	сту	A19	1111	rah	VIG	nr y	10	νsh	сту	₽¢u	1111	15	0111		
200	_				3										= ='			
201	Gly	Arg	Lys	Pro	Ala	Pro	Thr	Ala	Pro	Pro	His	Pro	Pro		His	Thr		
202				20					25					30				
203	a 3 = :	*** =	աւ	1	37 -	D == -	A	D == -	D=-	λ	TT	mh -	N	ui-	mh ∽	A = ~		
20 4 205	GТĀ	HIS	Thr 35	Arg	ата	Pro	arg	40	Pro	arg	HIS	THE	Arg	птз	1111	Arg		
203			23					0					4 3					

RAW SEQUENCE LISTING PATENT APPLICATION US/08/973,303

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206 207 208 209	His	Thr 50	Arg	Gln	Ala	Gly	Gln 55	Ala	His	Ala	Ser	Ala 60	Gly	Pro	Ala	Ala	
210 211 212	Pro 65	Ala	Thr	Gln	Thr	Arg 70	Thr	Ser	Arg	Arg	Gly 75	Gln	Asp	Val	His	Pro 80	
213 214 215	Pro	Arg	Ser	Arg	Cys 85	Met	Cys	His	Arg	Pro 90	Ser	Pro	Arg	Trp	Thr 95	Asp	
216 217 218	Gly	Arg	Thr	Arg 100	Ala	Arg	Arg	Gln	Arg 105	Pro	Pro	Val	Thr	Ala 110	Ala	Ala	
219 220 221	His	Ser	Asp 115	Val	Thr	His	Glu	Ser 120	Thr	His	Val	Glu	Ala 125	Asp	Ala	Val	
222 223 224	Val	Lys 130	Met	Ser	Leu	Pro	Ser 135	Pro	Gln	Asp	Gly	Arg 140	Thr	Asp	Ser	Thr	
225 226 227	145	•		•	_	Arg 150	-	_		_	155					160	
228 229 230	Glu	Gly	Ala	Arg	Gln 165	Gln	Gly	Leu	Thr	Ala 170	Tyr	Arg	Asn	Ala	Pro 175	Pro	
231 232 233	Gln																
234 235	(2)					SEQ											
236 237		(i)				HARAC				S							
238 239						nuc] DEDNI											
240				-		OGY:			,								
241 242 243		(ii) MOI	LECUI	E T	YPE:	cDN	A to	mRN	A							
244 245 246		(iii)) HYI	РОТН	ETICA	AL: 5	YES										
247 248 249 250		(ix)	(]	•	AME/I	KEY:		36									
251 252 253		(xi) SE(QUENC	CE DI	ESCRI	[PTI	on: s	SEQ I	ID NO	D: 4:	:					
254 255 256						CGT Arg											48
257 258	AGC		GTC	ACC	CAC	ACG	CGC	AGA	AGC	GGA	CGC	CGC	GGT	CAA	GAT	GTC	96

SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/08/973,303

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Original Text